

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/09589

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/705 C07K16/18 C12N15/12 C12Q1/68 G01N33/50
A61K35/00 A61K39/00 A61K39/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, EMBL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE SWALL 'Online! 1 December 2001 (2001-12-01) retrieved from EBI Database accession no. Q96CC6 XP002260981	1-10
Y	abstract -& DATABASE EMBL 'Online! 23 September 2001 (2001-09-23) retrieved from EBI Database accession no. BC014425 XP002260982 abstract	11-30
Y	WO 02 05843 A (ROBERTSON STEPHANIE A ;BELVIN MARCIA (US); CHEN CHANGYOU (US); FRI) 24 January 2002 (2002-01-24) the whole document --- -/--	11-30



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

17 November 2003

Date of mailing of the international search report

27/11/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/09589

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE SWALL 'Online! 1 March 2001 (2001-03-01) retrieved from EBI Database accession no. Q9H6E1 XP002260983 abstract</p> <p>---</p>	1-10
X	<p>DATABASE SWALL 'Online! 1 December 2001 (2001-12-01) retrieved from EBI Database accession no. Q96S34 XP002260984 abstract</p> <p>---</p>	1-10
X	<p>DATABASE SWALL 'Online! 1 March 2002 (2002-03-01) retrieved from EBI Database accession no. Q8VIK0 XP002260985 abstract</p> <p>---</p>	1-10
A	<p>KIELMAN M F ET AL: "Characterization and comparison of the human and mouse Dist1/alpha-globin complex reveals a tightly packed multiple gene cluster containing differentially expressed transcription units." GENOMICS. UNITED STATES 15 MAR 1996, vol. 32, no. 3, 15 March 1996 (1996-03-15), pages 341-351, XP002260977 ISSN: 0888-7543</p> <p>---</p>	
A	<p>LI HUIYU ET AL: "CDNA microarray analysis of chronic myeloid leukemia." INTERNATIONAL JOURNAL OF HEMATOLOGY. IRELAND MAY 2002, vol. 75, no. 4, May 2002 (2002-05), pages 388-393, XP009020831 ISSN: 0925-5710</p> <p>---</p>	
A	<p>KANETA YASUYUKI ET AL: "Prediction of sensitivity to STI571 among chronic myeloid leukemia patients by genome-wide cDNA microarray analysis." JAPANESE JOURNAL OF CANCER RESEARCH: GANN. JAPAN AUG 2002, vol. 93, no. 8, August 2002 (2002-08), pages 849-856, XP002260979 ISSN: 0910-5050</p> <p>---</p> <p style="text-align: center;">-/--</p>	

BEST AVAILABLE COPY

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>OHMINE K ET AL: "CHARACTERIZATION OF STAGE PROGRESSION IN CHRONIC MYELOID LEUKEMIA BY DNA MICROARRAY WITH PURIFIED HEMATOPOIETIC STEM CELLS" ONCOGENE, BASINGSTOKE, HANTS, GB, vol. 20, no. 57, 2001, pages 8249-8257, XP002952628 ISSN: 0950-9232</p>	
A	<p>KLÄMBT CHRISTIAN: "EGF receptor signalling: roles of star and rhomboid revealed" CURRENT BIOLOGY, CURRENT SCIENCE,, GB, vol. 12, no. 1, 8 January 2002 (2002-01-08), pages R21-R23, XP002248123 ISSN: 0960-9822</p>	
P,X	<p>WO 03 000928 A (PETERSEN MIKKEL WANDAHL ; PEDERSEN NINA (DK); MORTENSEN SHILA (DK);) 3 January 2003 (2003-01-03) the whole document -& DATABASE PATENT_PRT 'Online! 21 March 2003 (2003-03-21) retrieved from EBI Database accession no. AX658345 XP002260986 abstract</p>	1-30
P,A	<p>KOONIN EUGENE V ET AL: "The rhomboids: a nearly ubiquitous family of intramembrane serine proteases that probably evolved by multiple ancient horizontal gene transfers." GENOME BIOLOGY ENGLAND 2003, vol. 4, no. 3, 2003, page R19 XP002260980 ISSN: 1465-6914</p>	

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP 03/09589

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 23-29 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 21, 22, 25, 26 (all partially)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

BEST AVAILABLE COPY

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 21, 22, 25, 26 (all partially)

Present claims 21, 22, 25 and 26 relate to a composition or a method containing a compound defined by reference to a desirable characteristic or property, namely compound identified by the method of any one of claims 13-17.

The claims cover compositions and methods containing all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the antibody, antisense and RNAi molecules.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

BEST AVAILABLE COPY

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0205843	A	24-01-2002	AU 7696701 A	30-01-2002
			CA 2416445 A1	24-01-2002
			EP 1301611 A2	16-04-2003
			WO 0205843 A2	24-01-2002
			US 2003165497 A1	04-09-2003
			US 2002022029 A1	21-02-2002
WO 03000928	A	03-01-2003	WO 03000928 A2	03-01-2003

BEST AVAILABLE COPY